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| Data bits | Modulation bits | |
|-------------|-----------------|--|
| 00 00 00 00 | 010 100 100 100 | |
| 00 00 10 00 | 000 100 100 100 | |
| 00 00 00 | 010 100 000 | |
| 00 00 01 | 010 100 100 | |
| 00 00 10 | 000 100 000 | |
| 00 00 11 | 000 100 100 | |
| 00 01 | 000 100 | |
| 00 10 | 010 000 | |
| 00 11 | 010 100 | |
| 01 | 010 | |
| 10 | 001 | |
| 11 | 000 101 | If preceding modulation bits = xx1 If preceding modulation bits = xx1 |

| Data bit pattern to be substituted | Substituting modulation bits | Condition for substitution |
|------------------------------------|------------------------------|-------------------------------|
| 11 01 11 | 001 000 000 | If next modulation bits = 010 |

| Terminating data bits | Terminating modulation bits | |
|-----------------------|-----------------------------|--|
| 00 00 | 010 100 | |
| 00 | 000 | |

Fig. 1

| Sync number | 24-bit sync body | 6-bit sync-colour pattern |
|-------------|---------------------------------|---------------------------|
| FS0 | #01 010 000 000 010 000 000 010 | 000 001 |
| FS1 | #01 010 000 000 010 000 000 010 | 010 010 |
| FS2 | #01 010 000 000 010 000 000 010 | 101 000 |
| FS3 | #01 010 000 000 010 000 000 010 | 100 001 |
| FS4 | #01 010 000 000 010 000 000 010 | 000 100 |
| FS5 | #01 010 000 000 010 000 000 010 | 001 001 |
| FS6 | #01 010 000 000 010 000 000 010 | 010 000 |

Fig. 2

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| | Sync body | FS7 | data |
|-----------------|---------------------------------|---------|---------------------|
| Data bits | | | 01 11 01 11 |
| Modulation bits | #01 010 000 000 010 000 000 010 | 100 101 | 010 101 010 101 000 |

Fig. 3

| | Sync body | FS7 | data |
|-----------------------------|---------------------------------|---------|---------------------|
| Data bits | | 11 | 01 11 01 11 |
| Modulation bits | #01 010 000 000 010 000 000 010 | 100 101 | 010 101 010 101 000 |
| Substituted modulation bits | | | 000 000 |

Fig. 4

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| Existing syc colours | | | Alternatives | | |
|----------------------|---------|--------------|--------------|---------|----------------------|
| FS0 | 000 001 | (F) | A | 101 001 | (FS2, I) |
| FS3 | 100 001 | (B, D) | B | 010 001 | (FS1, FS3, FS5, FS6) |
| FS5 | 001 001 | (B, C, E, K) | C | 001 000 | (FS4, FS5, FS6) |
| FS2 | 101 000 | (A, H) | | | |
| FS6 | 010 000 | (B, C) | D | 100 010 | (FS1, FS3, H) |
| | | | E | 001 010 | (FS1, FS5) |
| FS1 | 010 010 | (B, D, E, G) | F | 000 010 | (FS0, FS4) |
| FS4 | 000 100 | (C, F, K) | G | 010 100 | (FS1, H, I) |
| | | | H | 100 100 | (FS2, G, I) |
| | | | I | 100 101 | (A, H, J) |
| | | | J | 010 101 | (G, I) |
| | | | K | 000 101 | (FS5, FS4) |

Fig. 5

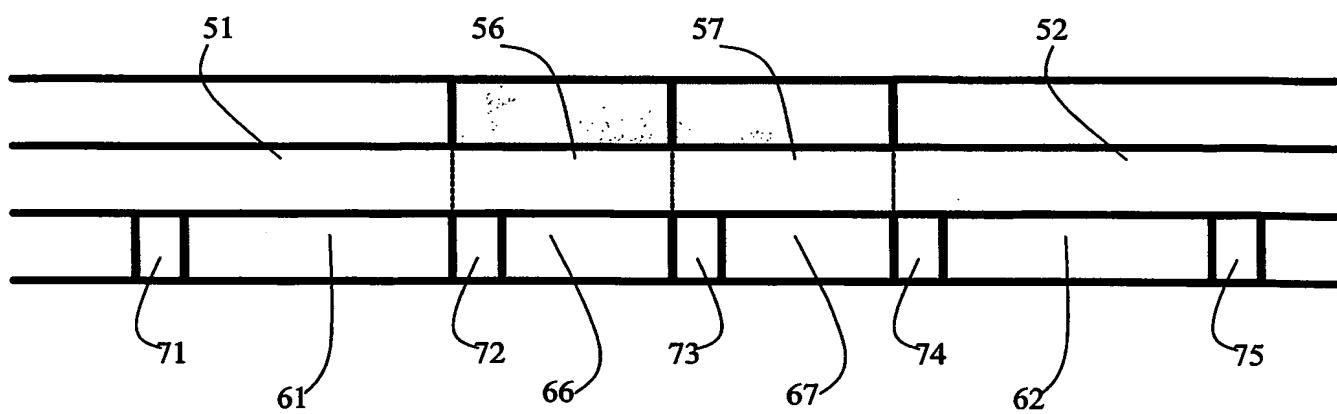


Fig. 6